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PTO/SB/81 (10-00)

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## **REVOCATION AND SUBSTITUTE POWER OF ATTORNEY OR AUTHORIZATION OF AGENT**

Applicati n Number	See Attached Appendix A
Filing Date	See Attached Appendix A
First Named Inventor	See Attached Appendix A
Group Art Unit	Not yet known
Examiner Name	Not yet known
Attorney Docket Number	See Attached Appendix A

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application, and I hereby appoint:
Practitioner(s) named below:
Herb Boswell, Reg. No. 27,311; Laurel S. Bernstein, Reg. No. 37,280; Robert S. Andrews, Reg. No. 44,508; Neil Bartfeld Reg. No. 39,901; Matthew Grumbling, Reg. No. 44, 427; Donna T. Ward, Reg. No. 48,271; Kenneth Tarbet, Reg. No. 43,181; Laura Handley, Reg. No. 39,704; Michael Shuster, Reg. No. 41,310; Susan T. Hubl, Reg. No. 47,668.
as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.
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Country TECH CENTER 1600/2900
Telephone Fax
I am the:  Applicant/Inventor.
Assignee of record of 100% interest. See 37 CFR 3.71.  Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).
SIGNATURE of Applicant or Assignee of Record
Name B. Lynne Parshall
Title Executive Vice President
Signature
Date / // 4/21/3
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representativ (s) are required. Submit multiple forms if more than one signature is required, se below.
☑ *Total of _1_ forms are submitted.

B. Lynne Parshall

Name

Executive Vice President and CFO

Title

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70708		APPENDIX A SIS PHARMACEUTI	CALS, INC.				E.
THE COOL	O. Application No. Filing Date:	Assignors	Group Art Unit	Reel	Frame	Recorded	投資的
Title: Auticon 1	10/187,110 06/29/2002	Donna T. Ward Kenneth W. Dobie	1653	013076	0173	06/29/02	鄉
Authorities Modulation of ADAM1	of ADAM12 Expression	u					7
HTS-0010 23546-07659	10/178,258 06/20/2002	Kenneth W. Dobie	1645	013041	0242	06/20/02	
Title: Antisense Modulation of Heme Oxygenase 1		Expression					T
ŀ							Т
	10/211,859 07/31/2002	Brett P. Monia Kenneth W. Dobje	1653	013172	0152	07/31/02	
11tle: Antisense Modulation of Ran GTI	of Ran GTPase Activat	Pase Activating Protein 1 Expression	nc				
HTC 0020   22547 6277							7
	05/31/2002	Donna T. Ward Susan M. Freier	1635	012975	0748	05/31/02	T
1 itle: Antisense Modulation of Rb2/p130	of Rb2/p130 Expression	J _ I					$\top$
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	10/154,708 05/22/2002	Andrew T. Watt	1645	012953	9116	05/22/02	$\neg \Gamma$
Title: Antisense Modulation of CDC-like	of CDC-like Kinase 1 Expression	xpression					
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RTS-0266 23546-07664	09/960,143 09/24/2001	Brenda F. Baker Susan M. Freier	1635	012201	9010	09/24/01	
Title: Antisense Modulation of Interleuki	of Interleukin 8 Expression	ion					$ \tau$
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RTS-0297 23546-07666	09/920,671	C. Frank Bennett	1635	012053	0521	08/01/01	
Title: Antisense Modulation of	of Conforme	Susan ivi. Ficici					

Revised: May 8, 2003

Title: Antisense Modulation of CoREST Expression

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AN A TRACE		Recorded	05/31/02		12/02/01		12/06/01		07/02/02	
		Frame	0945		0660		9650		0834	
		Reel	012956		012372		012360		013075	
•	CALS, INC.	Group Art Unit	1633		1645		1645		1646	
	APPENDIXA Vssignee: ISIS/PHARMAGEUTICALS, INC	Assignors	Kenneth W. Dobie	u	Kenneth W. Dobie Mark P. Roach		C. Frank Bennett Susan M Freier		Nicholas M. Dean,	Susan M. Freier, Kenneth Dobie
		Application No. Elling Date:	10/159,266 05/31/2002	athepsin Z Expression		1	10/003,919	xpression	10/118,779	07/02/2002
THE RESERVE AND THE PROPERTY OF THE PROPERTY O		ANTAY LJOCKET INO:	23546-07667	Antisense Modulation of Cathepsin	23546-07700	Title: Antisense Modulation of NOD1 Expression	23546-07701	Antisense Modulation of SHIP-1 E	23546-07703	
•	الرياسية والأراب		RTS-0398	Title: Antise	RTS-0337	Title: Antis	RTS-0256	Title: Antise	PTS-0042	

	DTG 0044	2000 71300						
	F13-0044	23546-07/04	10/173,902	Brett P. Monia	1646	013023	0118	06/17/02
_			06/17/2002	Kenneth W. Dobie			) 	
	Title: Antis	Title: Antisense Modulation of G Prot	3 Protein-Coupled	tein-Coupled Receptor 39 Expression				
	PTS-0045	PTS-0045 23546-07705	10/177,896	C. Frank Bennett	1645	013050 0407	0407	20/02/90
			06/20/2002	Kenneth W. Dobie				1
	Title: Antis	Title: Antisense Modulation of Phosph	hosphalipase D2 Expression	Xpression				
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Title: Antisense Modulation of Cyclin-Dependent Kinase 4 Expression

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· (	<b>Frame</b> 0389	0685	0952	0946	0717	0713	0419
	<b>Reel</b> 013058	013168	012971	12960	013168	012909	012974
	CALLS, INC. Group Art Unit	1645 sion	1643	1633 ase Expression	1632	1645 ion	1633
XXIUNDIA	SIS Bre Ke	23546-07707 10/210,428 C. Frank Bennet 07/31/2002 Kenneth W. Dobie Antisense Modulation of Hepatoma-Derived Growth Factor Expression	204 23546-07708 10/160,787 Andrew T. Watt 05/31/2002  Antisense Modulation for PCTAIRE Protein Kinase 2 Expression	299 23546-07709 10/159,834 Kenneth W. Dobie 1633  Antisense Modulation of Isoprenylcysteine Carboxyl Methyltransferase Expression	Susan M. Freier Kenneth W. Dobie inase 6 Expression	363 23546-07711 10/144,488 Brett P. Monia 05/10/2002 Susan M. Freier Antisense Modulation of Farnesyl Transferase Beta Subunit Expression	Susan M. Freier.  Kenneth W. Dobie
	AAppl Fill 10/17 06/19/	10/210,428 07/31/2002 Hepatoma-Derived	10/160,787 05/31/2002 PCTAIRE Protein	10/159,834 05/31/2002 soprenylcysteine Ca	10/210/802 07/31/2002 yclin-Dependent K	10/144,488 05/10/2002 arnesyl Transferase	
	Assignee:   Aftivibocketing   Application No.   Application No.	23546-07707	23546-07708 ense Modulation for	23546-07709 nse Modulation of I	35423546-0771010/210/802Susan M. FreierAntisense Modulation of Cyclin-Dependent Kinase 6 Expression	23546-07711 nse Modulation of F	365 23546-07712 10/159,856 05/31/2002 Antisense Modulation of G Protein-Cou
• .	ISISING. PTS-0047 Title: Antise	PTS-0048 Title: Antise	RTS-0204 Title: Antise	RTS-0299 Title: Antise	RTS-0354 Title: Antise	RTS-0363 Title: Antise	RTS-0365 Title: Antiser

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		Frame	9800	0593		0001		8800		0188		0920		0558	
		Reel	013023	013034		013131		013076		013087		021370		013504	
	CALS, INC.	Group Art Unit	1646	Expression 1642	sion	1645		1635		1642		1635	xpression	1653	
. 18	APPENDIX A ** ** ** ** ** ** ** ** ** ** ** ** **	Assignors	Brett P. Monia Kenneth W. Dobie	374 23546-07714 10/174,456 Brett P. Monia 1642	Antisense Modulation of of G Protein-Coupled Receptor 49 Expression	Lex M. Cowsert	2002 Kenneth W. Dobie main Kinase 1 Expression	Brett P. Monia Kennth W. Dobie		Kenneth W. Dobie		C. Frank Bennett Kenneth W. Dobie	Antisense Modulation of Thyroid Hormone Receptor Interactor 6 Expression		Kenneth W. Dobie
	· · · · · · · · · · · · · · · · · · ·	Application No. Filing Date:	10/174,020 06/17/2002	19pothetical Tumor 10/174,456	of G Protein-Couplec	10/100,100	AM. Domain Kinas	10/185,035 06/28/2002	EXRAS1 Expression	10/187,659 07/01/2002	2X4 Expression	10/008/789	hyroid Hormone Re	10/293,998	11/11/2002
		Atty Docket No.	23546-07713	23546-07714	ense Modulation of o	23546-07715	Antisense Modulation of LAM. Do	23546-07716	Antisense Modulation of DEXRAS	23546-07717	Antisense Modulation of P2X4 Exp	23546-07724	nse Modulation of T	23546-07755	T::   II/II/2002   Kenneth W.
•		ON CREE	RTS-0369	1'-	Title: Antise	RTS-0375	Title: Antise		Title: Antise	RTS-0379	Title: Antise	1 🗀	Title: Antise	HTS-0026	

Revised: May 8, 2003

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